

Access DB#

121/28

(11)

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: IANH TITAI Examiner #: 79264 Date: 5/4/04  
 Art Unit: 2171 Phone Number 305.4883 Serial Number: 09/805.722  
 Mail Box and Bldg/Room Location: 4803 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Electronic Assembly Engineering System Having Learning & Manipulating Function

Inventors (please provide full names): for user Defined data structure in a data system using transducer  
Brian Henry Stoelckley

Earliest Priority Filing Date: 3/10/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Disable or exclude the save-as function in data structures.

5/5/04  
5/5/04  
5/5/04

## STAFF USE ONLY

## Type of Search

## Vendors and cost where applicable

Searcher: M. Reese Stetefeld NA Sequence (#) \_\_\_\_\_ STN \_\_\_\_\_  
 Searcher Phone #: 308-7795 AA Sequence (#) \_\_\_\_\_ Dialog \_\_\_\_\_  
 Searcher Location: 4830 Structure (#) \_\_\_\_\_ Questel/Orbit \_\_\_\_\_  
 Date Searcher Picked Up: 5/5/04 9:15am Bibliographic \_\_\_\_\_ Dr. Link \_\_\_\_\_  
 Date Completed: 5/5/04 12:00pm Litigation \_\_\_\_\_ Lexis/Nexis \_\_\_\_\_  
 Searcher Prep & Review Time: \_\_\_\_\_ Fulltext \_\_\_\_\_ Sequence Systems \_\_\_\_\_  
 Clerical Prep Time: \_\_\_\_\_ Patent Family \_\_\_\_\_ WWW/Internet \_\_\_\_\_  
 Online Time: \_\_\_\_\_ Other \_\_\_\_\_ Other (specify) \_\_\_\_\_

Set	Items	Description
S1	10	AU=(STOCKLEY, B? OR STOCKLEY B?)
S2	3	S1 AND IC=G06F?
File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)		
(c) 2004 JPO & JAPIO		
File 348:EUROPEAN PATENTS 1978-2004/Apr W04		
(c) 2004 European Patent Office		
File 349:PCT FULLTEXT 1979-2002/UB=20040415,UT=20040408		
(c) 2004 WIPO/Univentio		
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427		
(c) 2004 Thomson Derwent		

2/5/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01354087

ELECTRONICS ASSEMBLY ENGINEERING SYSTEM WITH NAMING AND MANIPULATION  
FUNCTIONS FOR USER DEFINED DATA STRUCTURES USING TRANSACTION SERVICE  
ELECTRONIK-MONTAGESYSTEM MIT UMBENENNUNGS- UND MANIPULATIONSFUNKTIONEN FÜR  
BENUTZERDEFINIERTES DATENSTRUKTUREN UNTER VERWENDUNG EINES  
TRANSAKTIONSDIENSTES

SYSTEME D'INGENIERIE D'ASSEMBLAGE ELECTRONIQUE UTILISANT DES FONCTIONS  
D'AFFECTATION DE NOM ET DE MANIPULATION POUR DES STRUCTURES DE DONNEES  
DEFINIES PAR UN UTILISATEUR DANS UN SYSTEME DE DONNEES UTILISANT UN  
SERVICE TRANSACTIONNEL

PATENT ASSIGNEE:

Siemens Dematic Electronics Assembly Systems, Inc, (3935340), 2875  
Northwoods Parkway, Norcross, GA 30071-1535, (US), (Applicant  
designated States: all)

INVENTOR:

STOCKLEY, Brian, Henry, 218 East Chilhowie Avenue, Johnson City, TN  
37601, (US)

LEGAL REPRESENTATIVE:

Condon, Neil (95983), Siemens AG P.O. Box 22 16 34, 80506 Munchen, (DE)  
PATENT (CC, No, Kind, Date): EP 1261911 A2 021204 (Basic)

WO 2001069375 010920

APPLICATION (CC, No, Date): EP 2001920297 010312; WO 2001US7781 010312

PRIORITY (CC, No, Date): US 188964 P 000310

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-009/00

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 011114 A2 International application. (Art. 158(1))

Application: 011114 A2 International application entering European  
phase

Application: 021204 A2 Published application without search report

Examination: 021204 A2 Date of request for examination: 20020911

Change: 030102 A2 Legal representative(s) changed 20021106

LANGUAGE (Publication, Procedural, Application): English; English; English

2/5/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00835749 \*\*Image available\*\*

ELECTRONICS ASSEMBLY ENGINEERING SYSTEM WITH NAMING AND MANIPULATION  
FUNCTIONS FOR USER DEFINED DATA STRUCTURES USING TRANSACTION SYSTEMS  
SYSTEME D'INGENIERIE D'ASSEMBLAGE ELECTRONIQUE UTILISANT DES FONCTIONS  
D'AFFECTATION DE NOM ET DE MANIPULATION POUR DES STRUCTURES DE DONNEES  
DEFINIES PAR UN UTILISATEUR DANS UN SYSTEME DE DONNEES UTILISANT UN  
SERVICE TRANSACTIONNEL

Patent Applicant/Assignee:

SIEMENS DEMATIC ELECTRONICS ASSEMBLY SYSTEMS INC, 2875 Northwoods  
Parkway, Norcross, GA 30071-1535, US, US (Residence), US (Nationality)

Inventor(s):

STOCKLEY Brian Henry, 218 East Chilhowie Avenue, Johnson City, TN 37601  
, US

Legal Representative:

NUZZI Frank J (et al) (agent), Siemens Corporation - Intellectual  
Property Dept., 186 Wood Ave. South, Iselin, NJ 08830, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200169375 A2-A3 20010920 (WO 0169375)

Application: WO 2001US7781 20010312 (PCT/WO US0107781)

Priority Application: US 2000188964 20000310

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ  
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/44

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6395

#### English Abstract

The present invention provides novel naming and manipulation functions for user defined data structures in a data system using transaction service. In particular, in an electronics assembly engineering system having a computer subsystem in which user-defined data structures accessible to editor software have referential integrity and in which user modifications to the data structures during editing are made directly to the data structures rather than indirectly by way of a temporary file, the invention provides a method for permitting naming and manipulation of the data structures. The method includes the steps of (i) providing close, discard and rename functions for the data structures in the case where a newly-created data structure is being edited; (ii) providing close and copy functions for the data structures if an existing data structure is being edited; and (iii) excluding a save-as function for the data structures.

#### French Abstract

L'invention concerne de nouvelles fonctions d'affectation de nom et de manipulation de structures de donnees definies par un utilisateur dans un systeme de donnees a l'aide d'un systeme transactionnel. L'invention concerne, en particulier, un procede d'affectation de nom et de manipulation de structures de donnees dans un systeme d'ingenierie d'assemblage electronique, comprenant un sous-systeme dans lequel des structures de donnees definies par un utilisateur accessibles a un logiciel d'edition presentent une integrite referentielle, et dans lequel les modifications apportees par l'utilisateur aux structures de donnees pendant l'edition sont effectuees directement sur lesdites structures de donnees plutot qu'indirectement par l'intermediaire d'un fichier temporaire. Ce procede consiste i) a fournir des fonctions de fermeture, de suppression, et d'affectation de nom a des structures de donnees lorsque des structures nouvellement creees sont editees; ii) a fournir des fonctions de fermeture et de copie a des structures de donnees lorsqu'une structure de donnees existante est editee; et iii) a exclure une fonction de sauvegarde pour ces structures de donnees.

Legal Status (Type, Date, Text)

Publication 20010920 A2 Without international search report and to be republished upon receipt of that report.

Examination 20011227 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20020321 Late publication of international search report

Republication 20020321 A3 With international search report.

2/5/3 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014123273 \*\*Image available\*\*

WPI Acc No: 2001-607485/200169

XRPX Acc No: N01-453472

User defined data structure naming/manipulation for object oriented database, involves excluding save-as function for data structures, when newly created and existing data structures are edited

Patent Assignee: SIEMENS DEMATIC ELECTRONICS ASSEMBLY SYS (SIEI ); SIEMENS ELECTRONIC ASSEMBLY SYSTEMS INC (SIEI )

Inventor: STOCKLEY B H

Number of Countries: 095 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200169375	A2	20010920	WO 2001US7781	A	20010312	200169 B
US 20010037338	A1	20011101	US 2000188964	P	20000310	200172
			US 2001805722	A	20010312	
AU 200147368	A	20010924	AU 200147368	A	20010312	200208
EP 1261911	A2	20021204	EP 2001920297	A	20010312	200280
			WO 2001US7781	A	20010312	
BR 200109145	A	20030422	BR 20019145	A	20010312	200330
			WO 2001US7781	A	20010312	
JP 2003527712	W	20030916	JP 2001568186	A	20010312	200362
			WO 2001US7781	A	20010312	

Priority Applications (No Type Date): US 2000188964 P 20000310; US 2001805722 A 20010312

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200169375	A2	E	29	G06F-009/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

US 20010037338	A1			G06F-017/00	Provisional application US 2000188964
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AU 200147368	A			G06F-009/00	Based on patent WO 200169375
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EP 1261911	A2	E		G06F-009/00	Based on patent WO 200169375
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

BR 200109145	A			G06F-009/00	Based on patent WO 200169375
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JP 2003527712	W		37	G06F-012/00	Based on patent WO 200169375
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Abstract (Basic): WO 200169375 A2

NOVELTY - Close, discard and rename functions are provided for the data structures, when a newly created data structure is edited. Close and copy functions are provided for data structures, when an existing data structure is edited. A save-as function for the data structures is excluded, based on editing conditions.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Computer sub-system;

(b) Computer readable media storing with data structure naming/manipulation program

USE - For permitting naming and manipulation of user defined data structures of object oriented database used in electronics assembly engineering systems using transaction service for industrial applications. Also for user defined data structures including extensible mark-up language (XML) documents.

ADVANTAGE - Due to exclusion of save-as function, temporary copies of data structures are not created during editing. User modifications to the data structures during editing are made directly to the data structures rather than indirectly by a temporary file.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart illustrating basic functionality and menu functions of an editor in the mode where a new object is created.

pp; 29 DwgNo 4/5

Title Terms: USER; DEFINE; DATA; STRUCTURE; MANIPULATE; OBJECT; ORIENT;

DATABASE; EXCLUDE; SAVE; FUNCTION; DATA; STRUCTURE; NEW; EXIST; DATA;

STRUCTURE; EDIT

Derwent Class: T01

International Patent Class (Main): G06F-009/00 ; G06F-012/00 ;

G06F-017/00

International Patent Class (Additional): G06F-009/44

File Segment: EPI

Set	Items	Description
S1	21	AU=(STOCKLEY, B? OR STOCKLEY B?)
File	2:INSPEC	1969-2004/Apr W4 (c) 2004 Institution of Electrical Engineers
File	6:NTIS	1964-2004/May W1 (c) 2004 NTIS, Intl Copyright All Rights Res
File	8:EI Compendex(R)	1970-2004/Apr W4 (c) 2004 Elsevier Eng. Info. Inc.
File	34:SciSearch(R)	Cited Ref Sci 1990-2004/Apr W4 (c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online	1861-2004/Apr (c) 2004 ProQuest Info&Learning
File	65:Inside Conferences	1993-2004/May W1 (c) 2004 BLDSC all rts. reserv.
File	92:IHS Intl.Stds.& Specs.	1999/Nov (c) 1999 Information Handling Services
File	94:JICST-EPlus	1985-2004/Apr W2 (c)2004 Japan Science and Tech Corp(JST)
File	95:TEME-Technology & Management	1989-2004/Apr W3 (c) 2004 FIZ TECHNIK
File	99:Wilson Appl. Sci & Tech Abs	1983-2004/Mar (c) 2004 The HW Wilson Co.
File	103:Energy SciTec	1974-2004/Apr B2 (c) 2004 Contains copyrighted material
File	144:Pascal	1973-2004/Apr W4 (c) 2004 INIST/CNRS
File	202:Info. Sci. & Tech. Abs.	1966-2004/Feb 27 (c) 2004 EBSCO Publishing
File	233:Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	239:Mathsci	1940-2004/Jun (c) 2004 American Mathematical Society
File	275:Gale Group Computer DB(TM)	1983-2004/May 05 (c) 2004 The Gale Group
File	434:SciSearch(R)	Cited Ref Sci 1974-1989/Dec (c) 1998 Inst for Sci Info
File	647:CMP Computer Fulltext	1988-2004/Apr W4 (c) 2004 CMP Media, LLC
File	674:Computer News Fulltext	1989-2004/Apr W4 (c) 2004 IDG Communications
File	696:DIALOG Telecom. Newsletters	1995-2004/May 04 (c) 2004 The Dialog Corp.

Set	Items	Description
S1	22628	DATA() (SET? OR TYPE OR STRUCTURE?)
S2	117711	EXCLUD? OR PROHIBIT? OR DISABLE? OR DISENABLE? OR INACTIVATE?
S3	25	SAVE()AS
S4	1	S1 AND S2 AND S3

File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200427  
(c) 2004 Thomson Derwent



4/5/1 (Item 1 from file: 350)  
DIALOG(R) File 350: Derwent WRIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014123273 \*\*Image available\*\*  
WPI Acc No: 2001-607485/200169  
XRPX Acc No: N01-453472

User defined data structure naming/manipulation for object oriented database, involves excluding save - as function for data structures, when newly created and existing data structures are edited

Patent Assignee: SIEMENS DEMATIC ELECTRONICS ASSEMBLY SYS (SIEI ); SIEMENS ELECTRONIC ASSEMBLY SYSTEMS INC (SIEI )

Inventor: STOCKLEY B H

Number of Countries: 095 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200169375	A2	20010920	WO 2001US7781	A	20010312	200169 B
US 20010037338	A1	20011101	US 2000188964	P	20000310	200172
			US 2001805722	A	20010312	
AU 200147368	A	20010924	AU 200147368	A	20010312	200208
EP 1261911	A2	20021204	EP 2001920297	A	20010312	200280
			WO 2001US7781	A	20010312	
BR 200109145	A	20030422	BR 20019145	A	20010312	200330
			WO 2001US7781	A	20010312	
JP 2003527712	W	20030916	JP 2001568186	A	20010312	200362
			WO 2001US7781	A	20010312	

Priority Applications (No Type Date): US 2000188964 P 20000310; US 2001805722 A 20010312

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200169375	A2	E	29	G06F-009/00	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
US 20010037338	A1			G06F-017/00	Provisional application US 2000188964

AU 200147368	A			G06F-009/00	Based on patent WO 200169375
EP 1261911	A2	E		G06F-009/00	Based on patent WO 200169375
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
BR 200109145	A			G06F-009/00	Based on patent WO 200169375
JP 2003527712	W		37	G06F-012/00	Based on patent WO 200169375

Abstract (Basic): WO 200169375 A2

NOVELTY - Close, discard and rename functions are provided for the data structures, when a newly created data structure is edited. Close and copy functions are provided for data structures, when an existing data structure is edited. A save - as function for the data structures is excluded, based on editing conditions.

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- (b) Computer readable media storing with data structure naming/manipulation program

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ADVANTAGE - Due to exclusion of save - as function, temporary copies of data structures are not created during editing. User modifications to the data structures during editing are made

directly to the data structures rather than indirectly by a temporary file.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart illustrating basic functionality and menu functions of an editor in the mode where a new object is created.

pp; 29 DwgNo 4/5

Title Terms: USER; DEFINE; DATA; STRUCTURE; MANIPULATE; OBJECT; ORIENT;  
DATABASE; EXCLUDE ; SAVE; FUNCTION; DATA; STRUCTURE; NEW; EXIST; DATA;  
STRUCTURE; EDIT

Derwent Class: T01

International Patent Class (Main): G06F-009/00; G06F-012/00; G06F-017/00

International Patent Class (Additional): G06F-009/44

File Segment: EPI

Set	Items	Description
S1	43306	DATA() (SET? OR TYPE OR STRUCTURE?)
S2	167402	EXCLUD? OR PROHIBIT? OR DISABLE? OR DISENABLE? OR INACTIVA- TE?
S3	786	SAVE()AS
S4	20	S1 (S) S2 (S) S3
S5	16	S4 AND IC=G06F?
S6	23	S2 (5N) S3
S7	4	S6 AND S1
S8	0	S7 NOT S6
S9	21	S6 NOT S4
S10	5	S9 AND IC=G06F?

File 348:EUROPEAN PATENTS 1978-2004/Apr W04

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File 349:PCT FULLTEXT 1979-2002/UB=20040415,UT=20040408

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5/5,K/9 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00835749 \*\*Image available\*\*

ELECTRONICS ASSEMBLY ENGINEERING SYSTEM WITH NAMING AND MANIPULATION  
FUNCTIONS FOR USER DEFINED DATA STRUCTURES USING TRANSACTION SYSTEMS  
SYSTEME D'INGENIERIE D'ASSEMBLAGE ELECTRONIQUE UTILISANT DES FONCTIONS  
D'AFFECTATION DE NOM ET DE MANIPULATION POUR DES STRUCTURES DE DONNEES  
DEFINIES PAR UN UTILISATEUR DANS UN SYSTEME DE DONNEES UTILISANT UN  
SERVICE TRANSACTIONNEL

Patent Applicant/Assignee:

SIEMENS DEMATIC ELECTRONICS ASSEMBLY SYSTEMS INC, 2875 Northwoods  
Parkway, Norcross, GA 30071-1535, US, US (Residence), US (Nationality)

Inventor(s):

STOCKLEY Brian Henry, 218 East Chilhowie Avenue, Johnson City, TN 37601,  
US,

Legal Representative:

NUZZI Frank J (et al) (agent), Siemens Corporation - Intellectual  
Property Dept., 186 Wood Ave. South, Iselin, NJ 08830, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200169375 A2-A3 20010920 (WO 0169375)

Application: WO 2001US7781 20010312 (PCT/WO US0107781)

Priority Application: US 2000188964 20000310

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

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(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/44

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6395

English Abstract

The present invention provides novel naming and manipulation functions for user defined **data structures** in a data system using transaction service. In particular, in an electronics assembly engineering system having a computer subsystem in which user-defined **data structures** accessible to editor software have referential integrity and in which user modifications to the **data structures** during editing are made directly to the **data structures** rather than indirectly by way of a temporary file, the invention provides a method for permitting naming and manipulation of the **data structures**. The method includes the steps of (i) providing close, discard and rename functions for the **data structures** in the case where a newly-created **data structure** is being edited; (ii) providing close and copy functions for the **data structures** if an existing **data structure** is being edited; and (iii) excluding a save - as function for the **data structures**.

French Abstract

L'invention concerne de nouvelles fonctions d'affectation de nom et de manipulation de structures de donnees definies par un utilisateur dans un systeme de donnees a l'aide d'un systeme transactionnel. L'invention concerne, en particulier, un procede d'affectation de nom et de manipulation de structures de donnees dans un systeme d'ingenierie d'assemblage electronique, comprenant un sous-systeme dans lequel des structures de donnees definies par un utilisateur accessibles a un logiciel d'edition presentent une integrite referentielle, et dans lequel les modifications apportees par l'utilisateur aux structures de donnees pendant l'edition sont effectuees directement sur lesdites structures de

donnees plutot qu'indirectement par l'intermediaire d'un fichier temporaire. Ce procede consiste i) a fournir des fonctions de fermeture, de suppression, et d'affectation de nom a des structures de donnees lorsque des structures nouvellement creees sont editees; ii) a fournir des fonctions de fermeture et de copie a des structures de donnees lorsqu'une structure de donnees existante est editee; et iii) a exclure une fonction de sauvegarde pour ces structures de donnees.

Legal Status (Type, Date, Text)

Publication 20010920 A2 Without international search report and to be republished upon receipt of that report.

Examination 20011227 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20020321 Late publication of international search report

Republication 20020321 A3 With international search report.

Main International Patent Class: G06F-009/44

Fulltext Availability:

Detailed Description

Claims

#### English Abstract

The present invention provides novel naming and manipulation functions for user defined **data structures** in a data system using transaction service. In particular, in an electronics assembly engineering system having a computer subsystem in which user-defined **data structures** accessible to editor software have referential integrity and in which user modifications to the **data structures** during editing are made directly to the **data structures** rather than indirectly by way of a temporary file, the invention provides a method for permitting naming and manipulation of the **data structures**. The method includes the steps of (i) providing close, discard and rename functions for the **data structures** in the case where a newly-created **data structure** is being edited; (ii) providing close and copy functions for the **data structures** if an existing **data structure** is being edited; and (iii) excluding a **save - as** function for the **data structures**.

#### Detailed Description

... service.

#### SUMMARY OF THE INVENTION

The present invention provides novel naming and manipulation functions for user defined **data structures** in a data system using transaction service. In particular, in an electronics assembly engineering system having a computer subsystem in which userdefined **data structures** accessible to editor software have referential integrity and in which user modifications to the **data structures** during editing are made directly to the **data structures** rather than indirectly by way of a temporary file, the invention provides a method for permitting naming and manipulation of the **data structures**. The method includes the steps of (i) providing close, discard and renaine functions for the **data structures** in the case where a newly-created **data structure** is being edited; (ii) providing close and copy functions for the **data structures** if an existing **data structure** is being edited; and (iii) excluding a **save - as** function for the **data structures**.

The method is preferably performed by a computer subsystem within the electronics assembly engineering system, and in...

#### Claim

1 In an electronics assembly engineering system comprising a computer subsystem in which user-defined **data structures** accessible to editor software have referential integrity, and in which user modifications to the **data structures** during editing are made directly to the **data structures** rather than indirectly by way of a temporary file, a method for permitting naming and manipulation of the **data structures**, the method comprising the steps of. providing close, discard and rename

functions for the **data structures**, if a newly-created **data structure** is being edited; providing close and copy functions for the **data structures** if an existing **data structure** is being edited; and excluding a **save - as** function for the **data structures**.

2 The method according to claim 1, wherein the data structures comprise objects.

3 The method according to...

...media for use with an electronics assembly engineering system comprising a computer subsystem in which user-defined **data structures** accessible to editor software have referential integrity, and in which user modifications to the **data structures** during editing are made directly to the **data structures** rather than indirectly by way of a temporary file, the media having stored on it instructions for performing a method for permitting naming and manipulation of the **data structures**, the method comprising the steps of: providing close, discard and rename functions for the **data structures**, if a newly created **data structure** is being edited; providing close and copy functions for the **data structures** if an existing **data structure** is being edited; and excluding a **save - as** function for the **data structures**.

11 A computer-readable media for use with an electronics assembly engineering system comprising a computer subsystem...

...a save-as function for the data structures.

12 In a computer system in which user-defined **data structures** accessible to editor software have referential integrity, and in which user modifications to the **data structures** during editing are made directly to them rather than indirectly by way of a temporary file, a method for permitting naming and manipulation of the **data structures**, the method comprising the steps of: providing close, discard and rename functions for the **data structures**, if a newly created data structure is being edited; providing close and copy functions for the **data structures** if an existing **data structure** is being edited; and excluding a **save - as** function for the **data structures**.

The method according to claim 12, wherein the **data structures** comprise objects.

14 The method according to claim 12, wherein the data structures comprise mark-up language...

...method according to claim 14, wherein the data structures comprise XML documents.

16 A method for enabling **data structure** naming and manipulation functions in a computer system coupled to a display and employing transacted service, wherein the **data structures** have referential integrity and temporary copies of **data structures** are not created during editing of the **data structures**, the method comprising the steps of: presenting on the display a representation of a plurality of **data structures**; and providing a plurality of functions for either or both of naming and manipulation of **data structures**, the plurality of functions excluding a **save - as** function:

17 The method according to claim 16, wherein the plurality of

manipulation functions comprises providing close...

...representation of a plurality of data structures.

20 A method for enabling naming and manipulation functions for **data structures** in a computer subsystem of an electronics assembly system engineering system, the computer subsystem coupled to a display and also employing transacted service, wherein the **data structures** have referential integrity and temporary copies of **data structures** are not created during editing of the **data structures**, the method comprising the steps of presenting on the display a representation of a plurality of **data structures**; and providing a plurality of functions for either or both of naming and manipulation of **data structures**, the plurality of functions excluding a **save - as** function.

21 The method according to claim 20, wherein the plurality of manipulation functions comprises providing close...

5/5,K/13 (Item 5 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00455303 \*\*Image available\*\*  
METHOD OF SEQUENCING COMPUTER CONTROLLED TASKS BASED ON THE RELATIVE  
SPATIAL LOCATION OF TASK OBJECTS IN A DIRECTIONAL FIELD  
PROCEDE DE SEQUENCEMENT DE TACHES INFORMATISEES EN FONCTION DE LA  
REPARTITION SPATIALE DES DIFFERENTS OBJETS DE TACHES DANS UN CHAMP  
ORIENTE

Patent Applicant/Assignee:

ISOM Fred Steven,

Inventor(s):

ISOM Fred Steven,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9845767 A2 19981015

Application: WO 98US6086 19980327 (PCT/WO US9806086)

Priority Application: US 9743371 19970404; US 97905701 19970804

Designated States: CN IL JP RU AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL  
PT SE

Main International Patent Class: G06F-003/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9604

English Abstract

A graphical method for sequencing computer control task uses objects (14) to represent the task to be performed by the computer. The objects (14) are placed in a directional field (12) having a directional attribute (18) which specifies how the tasks are to be sequenced. The sequence of tasks to be performed collectively defines a procedure. When the procedure is initiated, the computer automatically sequences the task within the procedure based on the relative special location of the task objects and the directional attribute (18). The sequence can be modified by changing the relative location (24) of the task objects (14) or by changing the directional attribute (18).

French Abstract

La presente invention concerne un procede graphique permettant de sequencer des taches de gestion d'ordinateur et utilisant des objets pour représenter les taches a effectuer par l'ordinateur. Ces objets sont places dans un champ oriente affecte d'un attribut d'orientation specifiant les modalités de séquençement des taches. La sequence de taches a effectuer definit collectivement une procedure. Des qu'une procedure est lancee, l'ordinateur procede automatiquement au sequencement de la tache dans le cadre de la procedure en fonction de la

repartition spatiale speciale des objets de la tache et de l'attribut d'orientation. Le resequencement peut se faire par modification de la repartition des objets de la tache ou par modification de l'attribut d'orientation.

Main International Patent Class: G06F-003/00

Fulltext Availability:

Claims

Claim

... techniques may be used to trigger the sequence such as timer events or external input. A dynamic **data structure** is

16

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created (block 102) to store information about the objects in the user interface. The information stored would include the location of the objects. After creating the dynamic **data structure**, a function is called to return the number of objects to be sequenced (block 104). The computer...

...sequence (block 112). If the object is to be included, the object is added to the dynamic **data structure** (block 114). After all objects have been examined, the objects listed in the dynamic **data structure** are sorted based on the spatial location of the objects and the directional attribute of the master...and Help. When File is selected, a list of menu options is presented (e.g. New, Open, **Save As**, Exit). The Help menu activates a help file. It will be understood by those skilled in the...together. Objects in the 3-D embodiment also have an Include property which can be used to **exclude** particular tasks from the sequence as previously described. Figure 20 shows a practical application of the sequencing...



Set	Items	Description
S1	651	DATA() (SET? OR TYPE OR STRUCTURE?)
S2	691	EXCLUD? OR PROHIBIT? OR DISABLE? OR DISENABLE? OR INACTIVA-
	TE?	
S3	72	SAVE()AS
S4	1	S2 AND S3
S5	2	S1 AND S2
S6	0	S5 AND S3
S7	1	S4 NOT PY>2000

File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Mar  
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7/5/1

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01706311 DOCUMENT TYPE: Product

PRODUCT NAME: iLock (706311)

Visual Automation Inc (611808)  
403 S Clinton St #4  
Grand Ledge, MI 48837 United States  
TELEPHONE: (517) 622-1850

RECORD TYPE: Directory

CONTACT: Sales Department

Visual Automation's iLock 3.1 is a computer and application security program. Employed in school or home school environments, iLock 3.1 prevents unauthorized software installations. It can also be used to prevent access to specific programs. A single password unlocks systems. iLock now allows users to lock Microsoft (R) Office (R) File Open and **Save As** commands and to **disable** Microsoft Windows (R) 2000 menu items and toolbar buttons. Users can also **disable** Microsoft Excel (R) 2000 menu items and toolbar buttons. The system includes an updated Microsoft Internet Explorer Tools dialog feature. Enhanced tray icon handling supports more programs. iLock also now supports backdoor passwords that employ math equations. The product can be used to **disable** hotkeys, restrict access to files, and automatically hide, close, minimize, or maximize windows.

DESCRIPTORS: Computer Security; Configuration Management; File Security;  
High School Age; Password Protection; Preschool Age; Primary School Age  
; Schools; System Utilities

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Windows  
PROGRAM LANGUAGES: Not Available  
TYPE OF PRODUCT: Micro  
POTENTIAL USERS: Schools, Home Schoolers  
PRICE: Available upon request

REVISION DATE: 20030222

Set	Items	Description
S1	147475	DATA() (SET? OR TYPE OR STRUCTURE?)
S2	114552	EXCLUD? OR PROHIBIT? OR DISABLE? OR DISENABLE? OR INACTIVA- TE?
S3	375	SAVE()AS
S4	2	S2 AND S3
S5	0	S4 AND S1
S6	1	S4 NOT PY>2000
S7	1	S6 NOT PD>20000310
S8	862	S1 AND S2
S9	0	S8 AND S3
File	8: Ei Compendex(R)	1970-2004/Apr W4 (c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online	1861-2004/Apr (c) 2004 ProQuest Info&Learning
File	202: Info. Sci. & Tech. Abs.	1966-2004/Feb 27 (c) 2004 EBSCO Publishing
File	65: Inside Conferences	1993-2004/May W1 (c) 2004 BLDSC all rts. reserv.
File	2: INSPEC	1969-2004/Apr W4 (c) 2004 Institution of Electrical Engineers
File	233: Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	94: JICST-EPlus	1985-2004/Apr W2 (c) 2004 Japan Science and Tech Corp(JST)
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Mar (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Apr W3 (c) 2004 FIZ TECHNIK
File	583: Gale Group Globalbase(TM)	1986-2002/Dec 13 (c) 2002 The Gale Group

Set	Items	Description
S1	68760	DATA() (SET? OR TYPE OR STRUCTURE?)
S2	965843	EXCLUD? OR PROHIBIT? OR DISABLE? OR DISENABLE? OR INACTIVA- TE?
S3	8785	SAVE() AS
S4	16	S2 (3N) S3
S5	0	S1 AND S4
S6	1	S1 (S) S2 (S) S3
S7	8	S1 (S) S3
S8	1	S7 (S) S2
S9	1	S6 OR S8
S10	1	S9 NOT PY>2000

File 15:ABI/Inform(R) 1971-2004/May 04  
(c) 2004 ProQuest Info&Learning

File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire

File 647:CMP Computer Fulltext 1988-2004/Apr W4  
(c) 2004 CMP Media, LLC

File 275:Gale Group Computer DB(TM) 1983-2004/May 05  
(c) 2004 The Gale Group

File 674:Computer News Fulltext 1989-2004/Apr W4  
(c) 2004 IDG Communications

File 696:DIALOG Telecom. Newsletters 1995-2004/May 04  
(c) 2004 The Dialog Corp.

File 624:McGraw-Hill Publications 1985-2004/May 04  
(c) 2004 McGraw-Hill Co. Inc

File 636:Gale Group Newsletter DB(TM) 1987-2004/May 05  
(c) 2004 The Gale Group

File 484:Periodical Abs Plustext 1986-2004/Apr W4  
(c) 2004 ProQuest

File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

File 613:PR Newswire 1999-2004/May 05  
(c) 2004 PR Newswire Association Inc

File 16:Gale Group PROMT(R) 1990-2004/May 05  
(c) 2004 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group

File 553:Wilson Bus. Abs. FullText 1982-2004/Apr  
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